Oracle Day 2 – SQL Types

Note: Please watch my YouTube sessions to better understand the descriptions and queries below

NiC IT Academy YouTube Videos for reference

Oracle SQL Tutorial - English

https://youtube.com/playlist?list=PLsphD3EpR7F9mmtY2jBt O8Q9XmvrhQEF

Oracle SQL - தமிழில்

https://youtube.com/playlist?list=PLsphD3EpR7F-u4Jjp 3fYgLSsKwPPTEH4

★ Oracle SQL Day wise Video: ENGLISH

Oracle SQL Day 1 - Introduction to Oracle - https://youtu.be/hLnKjYGr730

Oracle SQL Day 2 – SQL Types DDL, DML, DRL, DCL, TCL - https://youtu.be/XpgjXvnfZec

Oracle SQL Day 3 - Constraints in Oracle - https://youtu.be/TmYgeFfHyyc

Oracle SQL Day 4 – SELECT Statements in Oracle - https://youtu.be/tYQfBgUCpol

Oracle SQL Day 5 - Single Row Functions in Oracle - https://youtu.be/4qJJxQuHLC4

Oracle SQL Day 6 – Joins in Oracle - https://youtu.be/CkaqluC2afE

Oracle SQL Day 7 – Aggregate Functions in Oracle - https://youtu.be/BSiCWzj-py8

Oracle SQL Day 8 – Sub Queries in Oracle - https://youtu.be/KtUCyG2cZe4

Oracle SQL Day 9 - SET Operators in Oracle - https://youtu.be/B0JbGbWsEIA

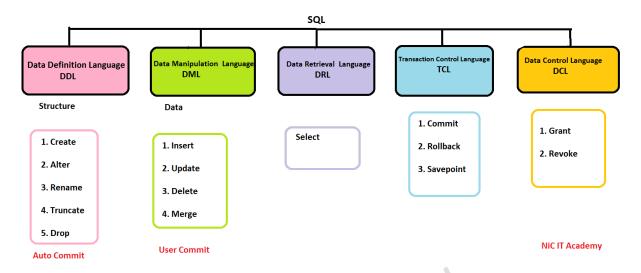
Oracle SQL Day 10 - Analytical Functions in Oracle - https://youtu.be/gRC3ndWLsoo

Oracle SQL Day 11 - Views in Oracle - https://youtu.be/m8a1UtOmd5k

Oracle SQL Day 12 - Indexes in Oracle - https://youtu.be/reL2O-kvNxc

Oracle SQL Day 13 - Regular Expression - https://youtu.be/k Eo08vLPhU

SQL can be classified into 5 different languages



```
create table customer
cust_id number(6),
               varchar2(50),
cust_name
mobile_no
                number(10),
dob
       date,
       varchar2(30),
city
email_id varchar2(30)
);
select * from customer;
insert into customer
(cust_id,cust_name,mobile_no,dob,city,email_id)
values(100000, 'Arun', 9090909090, to_date('08/04/2000', 'mm/dd/yyyy'),
        'Chennai', 'arun@gmail.com');
```

```
insert into customer
values(100001,'John', 9090909030,to_date('12/24/1986','mm/dd/yyyy'),
        'Bangaluru','john@gmail.com');
insert into customer
values(100002,'Geon',to_date('12/24/1985','mm/dd/yyyy'),
                                                             'Delhi', 'Geon@gmail.com');
-- SQL Error: ORA-00947: not enough values
insert into customer
(cust_id,cust_name,dob,city,email_id)
values(100002,'Geon',to_date('12/24/1985','mm/dd/yyyy'),
                                                             'Delhi','Geon@gmail.com');
rollback;
commit;
update customer
set mobile_no =7878787878;
rollback;
update customer
set mobile_no =7878787878 where cust_id=100002;
commit;
-- add a column
```

alter table customer

```
add country VARCHAR2(50);
select * from customer;
-- drop a column
alter table customer
drop column city;
update customer set country='India';
commit;
desc customer;
insert into customer
(cust_id,cust_name,mobile_no,dob,email_id,country)
values(1000000,'Dilip',9090909090,to_date('08/04/2000','mm/dd/yyyy'),'arun@gmail.com','india');
--ORA-01438: value larger than specified precision allowed for this column
CUST_ID
            NUMBER(6)
                           number(8)
MOBILE_NO
               NUMBER(10) varchar2(15)
alter table customer
modify cust_id number(8);
alter table customer
modify cust_id number(6);
```

ORA-01440: column to be modified must be empty to decrease precision or scale
alter table customer
modify MOBILE_NO varchar2(15);
ORA-01439: column to be modified must be empty to change datatype
one way
1. bkp a table
76,
2. truncate base table
C_0
3. modify data type
4. Restore the data
5. drop bkp table
5. Grop bup tuble
another way
1. Rename the table as bkp TABLE
2. create a main table with column data type

3. restore the data and VALIDATE
4. drop backup table
create table customer_bkp as select * from customer;
select * from CUSTOMER_BKP;
truncate table customer;
select * from customer;
rollback;
alter table customer
modify MOBILE_NO varchar2(15);
desc customer;
insert into customer (select * from customer_bkp);
commit;
select * from customer_bkp;

```
delete from customer_bkp;
rollback;
-- delete a partial record from table
delete from customer_bkp where cust_id=100001;
commit;
drop table customer_bkp;
desc customer;
dob date_of_birth
alter table customer
rename column dob to date_of_birth;
rename customer to customer_data;
desc customer_data;
create table customer_test(no1 number(3), no2 number(3));
insert into customer_test values (1,2);
savepoint a;
```

```
insert into customer_test values (3,4);
savepoint b;
insert into customer_test values (5,6);
savepoint c;
insert into customer_test values (7,8);
rollback to c;
select * from customer_test
rollback;
desc CUSTOMER_DETAILS;
select * from CUSTOMER_DETAILS;
999999 99999999
Modify a column
alter table customer_details
modify cust_id number(8);
```

alter table customer_details
modify mobile_no varchar2(15);
ORA-01439: column to be modified must be empty to change datatype
bkp
truncate
modify
restore
create table customer_details_bkp as select * from customer_details;
select * from CUSTOMER_DETAILS_BKP;
Select Holli Costowick_DETAILS_BKI,
create table customer_details_bkp1 as select * from customer_details where 1=2;
Truncate a table
truncate table customer_details;
Modify
alter table customer_details
modify mobile no varchar2(15):

```
desc customer_details;
select * from customer_details;
insert into customer_details (select * from customer_details_bkp);
commit;
select * from customer_details_bkp;
-- Delete a record
delete from customer_details_bkp
where cust_id=100002;
rollback;
drop table customer_details_bkp;
select * from CUSTOMER_DETAILS_BKP;
```

truncate table customer;
delete from customer;
commit;
create a table
insert 1
update
insert 1
alter add a column
update
insert 1
alter add a column
update
insert

insert
rollback;
how many records will be there in the table?
insert into hr.customer_details values (100003,'Vijay',sysdate,9080706050,896745);
select * from customer_details;